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ambient map display 900 and may be updated in real-time based on polling consumer device location changes.

Advantageously, the visually enhanced merchant indicators of the ambient map display provides an interface particularly adapted for mobile consumer devices. Mobile 5 consumer devices, such as smartphones, navigation devices, or wearables, often include design constraints as dictated by the need for mobility. Some design constraints include single displays with small screen size, as well as the types of user input devices that are available (e.g., touch screen). Here, the 10 ambient map display and merchant indicators may be integrated with a navigation interface to reduce the need for simultaneous multiple application control and interfacing. For example, the control of multiple applications on conventional mobile devices (e.g., separate navigation and 15 consume interfaces) is particularly cumbersome, often requiring the use of a home button, or the like, to exit a current application and enter a mobile operating system desktop display with application icons, and then selection of a particular application icon to bring a second application to 20 the foreground. The ambient map display may provide for the reduction of consumer inputs required to perform complex interactions on a mobile device while executing a navigation process, which may be particularly advantageous in the context of a traveling or otherwise multi-tasking 25 consumer. Furthermore, additional interface efficiencies may be achieved because travel path rerouting based on a selected merchant indicator may be provided to the ambient map display as discussed in greater detail below.

At 622, the one or more servers 106 may be configured to determine whether to consumer selected a merchant location indicator within the ambient map display. For example, the local merchant location indicators 804 and 904 within ambient map displays 800 and 900 respectively may each be electronic buttons that provide references or links to additional merchant information. In some embodiments, consumer selection of a merchant location indicator may be provided via consumer device inputs to a touchscreen of the consumer device. However, one or more other types of consumer inputs may also be used such as keyboard inputs, 40 voice inputs, mouse inputs, etc.

In response to determining that the consumer has selected a merchant location indicator, method 600 may proceed to 622, where the one or more servers 106 may be configured to provide a merchant display to the consumer interface. 45 FIG. 10 shows an example of a merchant display 1000 in accordance with some embodiments. For example, in response to the consumer selecting local merchant indicator 1004 within map 1002, server 106 may be configured to provide the merchant display 1000 including merchant data 50 overlay 1002. Merchant data overlay 1002 may include directions button 1006, call button 1008, and merchant data 1010. Call button 1008 may be associated with the telephone number of the merchant location, and selection of the call button 1008 may result in the initiation of a telephone 55 dialing process on the consumer device to the associated telephone number. Directions button 1006, when selected, may result in server 106 providing a directions display to the consumer interface.

FIG. 11 shows an example of a directions display 1100 in 60 accordance with some embodiments. Directions display 1100 may be configured to provide an indication an optimal or recommended path 1106 from the consumer device location 1102 to the selected merchant location 1104 within a map. Direction display 1100 may further include distance 65 indicator 1108, indicating the distance from consumer device location 1102 to the selected merchant location 1104

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along path 1106, and arrival time indicator 1110 indicating an estimated travel time from consumer device location 1102 to the selected merchant location 1104 along path 1106. In some embodiments, the path 1106, distance, and estimated travel time may be determined based on the travel speed and/or mode of transportation of the consumer. For example, the path for a consumer traveling by foot may include sidewalks or walkways that are otherwise inaccessible by an automobile.

Returning to 622, in response to determining that the consumer has not selected a merchant location indicator within the ambient map display, method 600 may return to 614, where the one or more servers may be configured to continue to receive, via the network and from the consumer device, consumer device location data indicating a consumer device location of the consumer device. Here, server 106 may be configured to poll the consumer device for the consumer device location, such as at predetermined times. In another example, the consumer device may be configured to push the consumer device location to the server 106. Server 106 may use the updated consumer device locations to generate and/or update the consumer interface at 616-622 as discussed above. Method 600 may then proceed to 624 and end.

CONCLUSION

Many modifications and other embodiments will come to mind to one skilled in the art to which these embodiments pertain having the benefit of the teachings presented in the foregoing descriptions and the associated drawings. Therefore, it is to be understood that embodiments and implementations are not to be limited to the specific example embodiments disclosed and that modifications and other embodiments are intended to be included within the scope of the appended claims. Although specific terms are employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation.

That which is claimed:

1. A system, comprising:

one or more servers including:

communication circuitry configured to communicate with consumer devices and merchant devices via a network, wherein the merchant devices are associated with a plurality of merchant locations; and processing circuitry configured to:

receive, via the network, transaction data from the merchant devices;

determine an activity level score for each of the plurality of merchant locations based on the transaction data:

action data; receive, via the network and from a consumer device, consumer device location data indicating a consumer device location of the consumer device; determine, at least in part by comparing the consumer device location and the plurality of merchant locations, one or more local merchant locations proximate to the consumer device location; generate a consumer interface including an ambient map display, wherein the ambient map display comprises one or more local merchant location indicators associated with the one or more local merchant locations, and wherein at least one of the one or more local merchant location indicators is visually enhanced based on the activity level score for the one or more local merchant locations;